Yanping Chen

chenyanp@iu.edu · +1 (631) 710-1634 · https://yanpchen.github.io/

EDUCATION

Ph.D. in Economics, Indiana University Bloomington *Expected May 2027*

M.A. in Economics, Stony Brook University *Dec 2020*

B.A. in Economics, Wang Yanan Institute for Studies in Economics, Xiamen University *July 2017*

RESEARCH FIELDS

Econometrics (robust inference under clustered and network dependence), Financial Economics

WORKING PAPERS

Projection Spillovers and Exact Robust Variance Estimation (Job Market Paper)

- *Abstract:* Classical robust standard errors replace unobserved errors with OLS residuals and correct each for its own leverage. But residualization also mixes errors across observations, and this projection spillover biases robust variance estimators or leaves them undefined. I propose a level factor, computed from the design alone, that measures this bias, and estimate the variance directly by solving a linear inverse problem with a matrix-free solver. The resulting Riesz estimator is exactly unbiased whenever the variance is identified and exists where block-inversion corrections (CR2, CR3, leave-cluster-out) fail; a general theorem extends it to multi-way clustering and network dependence, and a change of coordinates to weighted least squares. In Xu (2018), it changes conclusions for three of five connection measures; in Mian and Sufi (2014), it roughly doubles most published standard errors.
- *Presentations:* NASM, CES China, SERC, MEG, CESG (poster), UniMelb (brownbag)*, ESAM*, ANZAE AE^2*

Covariance Identification from Regression Residuals

- *Abstract:* Regression residuals are projections of the errors, not observations of them. I characterize what residuals identify about the error covariance, separating projection loss from moment-selection loss: under the orthogonal projection of OLS, restricting residual moments to the maintained structure loses no identifying information, though excluded moments improve conditioning. Coefficient-free quadratic statistics identify more, but still not the OLS sandwich variance under an unrestricted model.

Can Latent Error Clusters Be Recovered from Regression Residuals? (with Maoran Xu), draft coming soon

- *Abstract:* Cluster-robust inference presumes the partition of units into dependent clusters is known; we study when it can be recovered from regression residuals. Because the partition is discrete and the projection is known, recovery is an inverse problem on cluster memberships. Our criterion uses residuals alone, so coefficients may drift arbitrarily, and its convex relaxation certifies global optimality when tight. We prove exact recovery for a fixed cross-section as the number of periods grows, under conditions on the design.

WORK IN PROGRESS

- **Exact Robust Variance Estimation for the Anderson–Rubin Test** (with Keli Xu, early)
- **Labor Mobility Networks and Latent Firm Clusters** (with Isaac Hacamo, early)
- **Is the ESG Premium a Large-Firm Premium?**

PRESENTATIONS

(*: scheduled)

2026: North American Summer Meeting of the Econometric Society (NASM), CES China Annual Conference, Singapore Economic Review Conference (SERC), Midwest Econometrics Group (MEG), Canadian Econometrics Study

Group (CESG, poster), IU Econometrics Seminar, University of Melbourne (brownbag)*, Econometric Society Australasia Meeting (ESAM)*, 2nd AE^2 Conference of the ANZAE (presenter; discussant)*

2024: IU Hoosier Economics Conference

HONORS & AWARDS

- Daniel J. Duesterberg Award — *Indiana University Bloomington, 2026*
- Lloyd Orr Dissertation Fellowship — *Indiana University Bloomington, 2025*
- Susan C. Thrasher Fellowship — *Indiana University Bloomington, 2025*
- H.H. Crawford Fellowship — *Indiana University Bloomington, 2024*
- Outstanding Graduate Student Award — *Stony Brook University, 2020*

TEACHING EXPERIENCE

Associate Instructor
Department of Economics, Indiana University Bloomington

- E371-Introduction to Applied Econometrics (undergrad.) — *SP2025, SP/FA2026*
- E370-Statistical Analysis for Business & Economics (undergrad.) — *SU/FA2023, SP/SU2024, SU2025, SU2026*

Visiting Instructor
Zhejiang University of Finance and Economics

- Structural Econometrics (Ph.D.) — *SU2025*

Teaching Assistant
Department of Economics, Indiana University Bloomington

- E671-Econometrics III (Ph.D.) — *FA2024*
- E371-Introduction to Applied Econometrics (undergrad.) — *FA2025*
- E370-Statistical Analysis for Business & Economics (undergrad.) — *FA2021, SP2022*
- B251-Fundamentals of Economics for Business I (undergrad.) — *FA2022, SP2023*

RESEARCH EXPERIENCE

- Research Assistant (with Prof. Todd B. Walker) — *Indiana University Bloomington, Summer 2024*
- Research Assistant (with Prof. Todd B. Walker) — *Indiana University Bloomington, Winter 2021*
- Research Assistant (with Prof. Samuele Centorrino) — *Stony Brook University, Summer 2021*

SKILLS

- **Programming:** Python, R, Matlab, Stata; high-performance computing (IU Quartz cluster, parallel jobs)
- **Language:** Chinese (native), English (fluent)

REFERENCES

Keli Xu (Chair)
Department of Economics
Indiana University Bloomington
kelixu@iu.edu

Laura Liu
Department of Economics
University of Pittsburgh
laura.liu@pitt.edu

Maoran Xu
Department of Statistics
Indiana University Bloomington
mx13@iu.edu

Nastassia Krukava (teaching)
Department of Economics
Indiana University Bloomington
nkrukava@iu.edu